

United States of America  
Department of Transportation -- Federal Aviation Administration

# Supplemental Type Certificate

Number ST01650NY-D

This certificate issued to

PATS Aircraft, LLC.  
21652 Nanticoke Avenue  
Georgetown, Delaware 19947

certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 25 of the Federal Aviation Regulations.

Original Product - Type Certificate Number: A16WE

Make: Boeing

Model: 737-700 (IGW)

*Description of Type Design Change:*

- Configuration A) Installation of provisions for a Five (5) Cell Auxiliary Fuel System in the cargo compartment in accordance with configuration 5005-2800-300 of the DeCrane/PATS, Inc., Master Drawing List No 5005-2800-001, Rev. F, dated March 21, 2003.
- Configuration B) Installation of provisions for a Five (5) Cell Auxiliary Fuel System in the cargo compartment in accordance with configuration 5005-2800-300 of the DeCrane/PATS, Inc., Master Drawing List No 5005-2800-001, Rev. K, dated August 6, 2003.
- Configuration C) Installation of a Five (5) Cell Auxiliary Fuel System in the forward and aft cargo compartment areas in accordance with configuration 5005-2800-100-101 of the PATS Aircraft, LLC. Master Drawing List No 5005-2800-001, Rev. P, dated March 23, 2005.
- Configuration D) Installation of a Four (4) Cell Auxiliary Fuel System in the forward and aft cargo compartment areas in accordance with configuration 5005-2800-100-103 of the PATS Aircraft LLC Master Drawing List No. 5005-2800-001, Rev. R, dated September 13, 2005

*Limitations and Conditions:*

1. Configurations A & B installations are life limited to one thousand aircraft flight cycles.
2. Configuration C; PATS Aircraft, LLC. Flight Manual Supplement No. 124, dated March 24, 2005 or later approved revision, is required for this installation.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

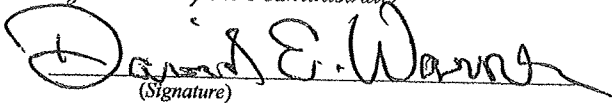
Date of application : September 13, 2002

Date reissued : June 4, 2004, January 5, 2005

Date of issuance : March 25, 2003

Date amended : August 18, 2003, June 7, 2004, March 24, 2005  
September 22, 2005, November 10, 2005  
April 9, 2009



By direction of the Administrator  
  
(Signature)

David E. Warner  
DAS administrator  
DAS-955292-NE

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

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**Supplemental Type Certificate**  
(Continuation Sheet)

*Number* ST01650NY-D

*Date amended* : April 9, 2009

*Description of Type Design Change:* (Continued)

Configuration E) Installation of a Four (4) Cell Auxiliary Fuel System in the forward and aft cargo compartment areas on a 737-700(IGW) with Nitrogen Generating System (NGS) installed in accordance with configuration 5005-2800-100-105 of the PATS Aircraft LLC Master Drawing List No. 5005-2800-001, Rev. V, dated April 8, 2009.

*Limitations and Conditions:* (Continued)

3. Configuration D; PATS Aircraft, LLC. Flight Manual Supplement No. 129, revision A dated November 10, 2005 or later approved revision is required for this installation.
4. Configuration E;
  - a. PATS Aircraft, LLC. Flight Manual Supplement No. 129, revision A dated November 10, 2005 or later approved revision is required for this installation.
  - b. This modification may not be installed after August 30, 2010 unless (1) previously approved electrical wiring interconnections system (EWIS) instructions for continued airworthiness (ICA) have been evaluated and determined to be adequate for these installations by the FAA, or (2) revised EWIS ICA have been approved by the FAA Oversight Office (Refer § 26.11).
  - c. This modification may not be installed after September 19, 2012 unless (1) the § 26.35(b) requirement for a flammability exposure analysis has been approved, (2) compliance with § 26.981 at Amendment 25-125, in accordance with the § 26.35(e), has been found for this STC, or (3) service instructions for design changes necessary to meet § 25.981 at Amendment 25-125 and associated airworthiness limitations have been approved for installations of this STC prior to September 19, 2012. Unless the STC is amended to remove this limitation after the accomplishment of the above tasks, the STC installer will need to have a letter from the FAA Oversight Office documenting compliance with these requirements in order to install this STC after September 19, 2012.
  - d. This modification may not be installed after December 11, 2009 unless the flammability exposure analysis required by 14 CFR 26.35 (b) has been FAA approved.

All Configurations:

5. PATS Aircraft, LLC. "Auxiliary Fuel System Maintenance Manual Supplement" TO-1642, Revision 3, dated August 1, 2005 with TR28-1014 dated November 20, 2008 or later approved revision; and "Auxiliary Fuel System Fault Isolation Manual Supplement" TO-1645, Revision 3, dated August 1, 2005 with TR28-1001 dated April 11, 2006 or later approved revision, are required for these installations.
6. The installation of the auxiliary fuel tank system, installed per this supplemental type certificate, has been evaluated in accordance with AC 120-42A, Paragraph (8). This installation has no adverse effect on the previously approved ETOPS capability of the type-certificated aircraft.
7. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the person written evidence of that permission.
8. The installer must determine whether this design is compatible with previously approved modifications.

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**Supplemental Type Certificate**  
(Continuation Sheet)

*Number* ST01650NY-D

*Date amended* : April 9, 2009

*Certification Basis:*

Based on 14 CFR § 21.115 and § 21.101, and the FAA policy for changes that are not significant in FAA Order 8110.48, the certification basis for these modifications are as follows:

The existing type certification basis for Boeing Model 737-700IGW series as shown on FAA type certificate data sheet A16WE, along with the following exceptions:

25.981                      Amendment 25-125

**Part 26 regulations**

Per 14 CFR para. 21.101(g), applicable provisions of 14 CFR Part 26 must be met.

... END ...